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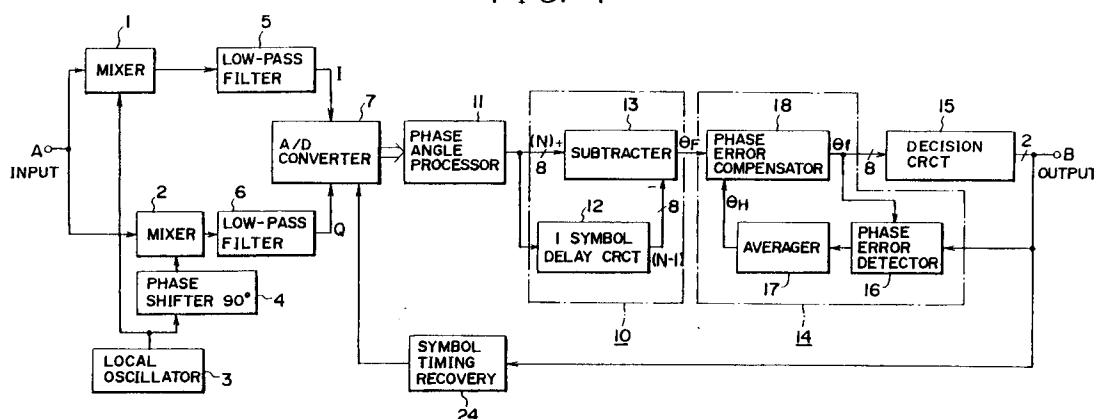
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14.10.92 Bulletin 92/42(71) Applicant: **JAPAN RADIO CO., LTD**
1-1, Shimorenjaku 5-chome
Mitaka-shi Tokyo(JP)(72) Inventor: **Shimakata, Yukihiro, c/o Japan**
Radio Co., Ltd.
1-1, Shimorenjaku 5-chome
Mitaka-shi, Tokyo(JP)
Inventor: **Kubo, Kazutoshi, c/o Japan Radio**
Co., Ltd.
1-1, Shimorenjaku 5-chome
Mitaka-shi, Tokyo(JP)(74) Representative: **Tiedtke, Harro, Dipl.-Ing. et al**
Patentanwälte Tiedtke-Bühling- Kinne &
Partner Bavariaring 4 POB 20 24 03
W-8000 München 2(DE)(54) **Circuit for demodulating PSK modulated signal by differential-detection.**

(57) In a demodulator circuit which is simple in construction, a PSK modulated signal is converted in frequency into a quasi-base band signal and is then subjected to complex separation. Partly since a phase angle sampled from a digital complex signal is supplied to a differential-detector circuit, and partly since the differential-detector circuit processes

only the phase angle, the differential-detector circuit has a simple construction. As the detected phase difference between two successive symbol data, an error between a carrier wave contained in the modulated signal and a locally oscillated frequency on the receiving side is compensated and is outputted as a digital demodulated signal.

FIG. 1





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EUROPEAN SEARCH REPORT

Application Number

EP 91 10 4572

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	US-A-3 697 881 (NAKAGOME ET AL.) * abstract * * column 1, line 48 - column 2, line 7 * * column 4, line 34 - line 41 * * column 5, line 28 - line 52 * * column 5, line 67 - column 6, line 4 * * column 6, line 11 - line 18 * * column 9, line 49 - line 55 * * claims 1,3,4,6; figures 1-3 * ---	1-5	H04L27/22
X	PROCEEDINGS ICDSC-7 (7TH INTERNATIONAL CONFERENCE ON DIGITAL SATELLITE COMMUNICATIONS - MUNICH) 12 May 1986, VDE-VERLAG GMBH; BERLIN, DE pages 573 - 578; HOEBER C. F. ET AL.: 'BANDWIDTH AND POWER EFFICIENT SATELLITE TDMA DEMODULATOR' * page 574, left column, line 15 - line 23 * * page 575, right column, line 4 - page 576, left column, line 5 * * figures 3,4 * ---	1,2,4,5	
A	EP-A-0 154 503 (TOSHIBA) * abstract * * page 4, line 7 - line 12 * * page 4, line 33 - page 5, line 2 * * page 11, line 9 - page 12, line 12 * * figures 3-6 * -----	1-3	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20 AUGUST 1992	Examiner GHIGLIOTTI L.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			